

## City of New Orleans Resilience Design Review Committee

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- Thank you for joining us and continuing to stay Safer at Home in Phase II. Welcome to the WebEx presentation of the Resilience Design Review Committee.
- **Please keep your computer and/or phone on mute while the presentation is ongoing.**
- Each presentation and discussion of the Committee Members will be approximately 30 minutes. Public comment will be requested at the end of the meeting. There are two ways to ask questions:
  - Use the chat feature to chat us a question at any point during the presentation. We will go through all questions during the discussion at the end.
  - You can also use this number to text questions to the team: (504)-941-0594. These questions will be read aloud by the moderator at the end of the meeting.
- **AGENDA**
  - Presentation – St. Bernard Neighborhood Campus
  - Public Comment



# City of New Orleans Resilience Design Review Committee

St. Bernard Neighborhood Campus

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**4:00 p.m., 8/3/20**

# Resilience Design Review Committee

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- Created by City Policy Memo 133R to ensure consistency with the Resilience Strategy - <https://nola.gov/resilience-sustainability/>
- Members of the Committee
  - Chief Resilience Officer
  - Office of Equity
  - Hazard Mitigation Administrator
  - Parks and Parkways
  - Public Works
  - Planning Commission
- Reviews projects across these categories
  - Location, character, and extent
  - Embodiment of resilience values
  - Equity impacts and outcomes
  - Creative community involvement and engagement
  - Best maintenance design for resilience performance criteria

# St. Bernard Neighborhood Campus

90% Resilience Design Review Committee Meeting

September 3, 2020

4:00 – 5:00 pm



City of New Orleans  
Mayor LaToya Cantrell



St. Bernard  
Neighborhood Campus

GENTILLY  
**Resilience**  
DISTRICT

# Introductions

## Project Team on the Call



Stephanie Dreher  
City of New Orleans



Natalie Manning  
City of New Orleans



Tom Cancienne  
Stantec



Julia Drapkin  
IseeChange



Brook Morris  
Procella Design



# Agenda

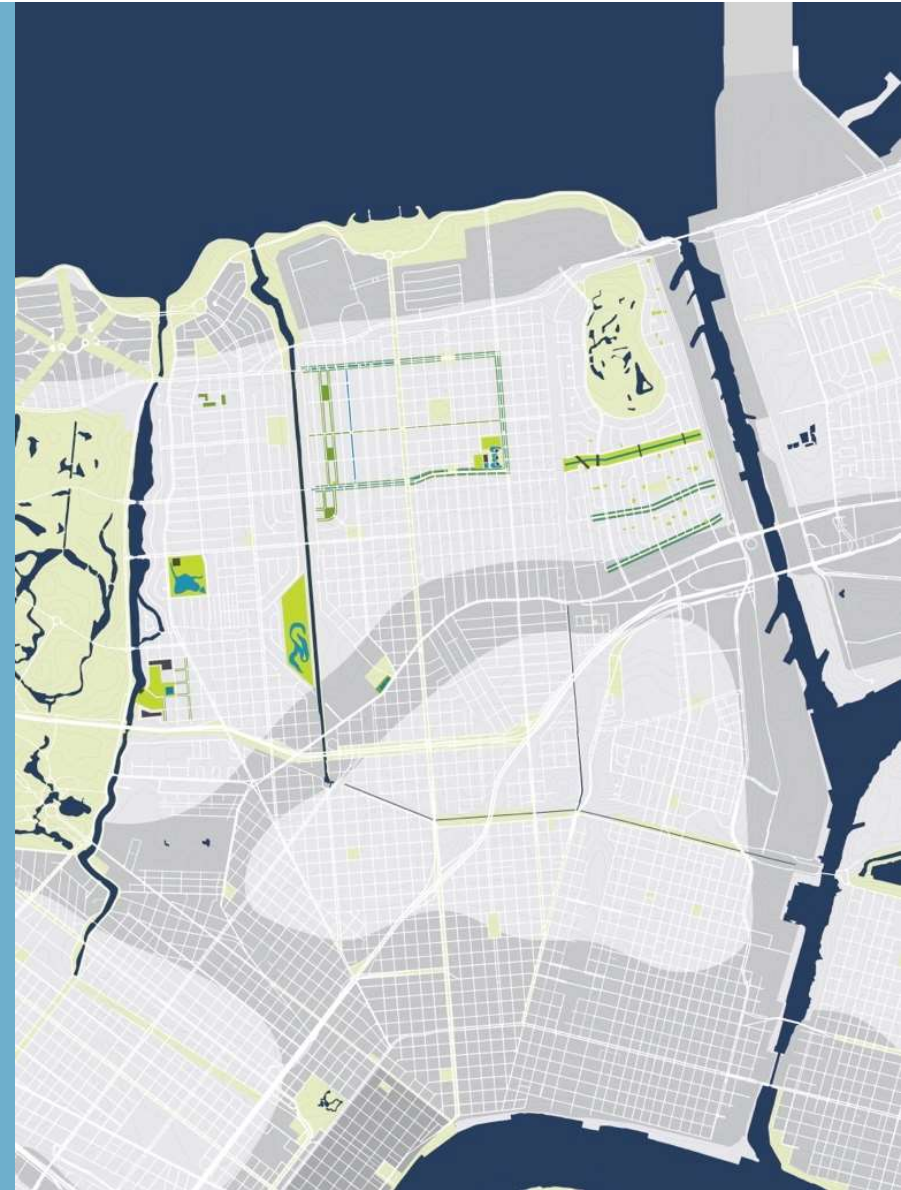
1. Background
2. Project Goals
3. Public Engagement
4. Project Update
5. Schedule
6. Questions



# Background

## Urban Stormwater Planning & the Gentilly Resilience District

- Urban Water Plan (2013)
- FEMA funded Hazard Mitigation Program Grant (HMGP) combination gray and green infrastructure projects
- Combining the City's Joint Infrastructure Recovery Request (JIRR) Capital Improvement Program funds
- \$141M US Department of Housing and Urban Development (HUD) National Disaster Resilience (NDR) grant funding for the Gentilly Resilience District projects and programs



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# Background

## Existing Conditions

- Pumping and low infiltration has led to high subsidence rates
- Entire neighborhood drains to Drainage Pump Station (DPS) #3
- Frequent flooding

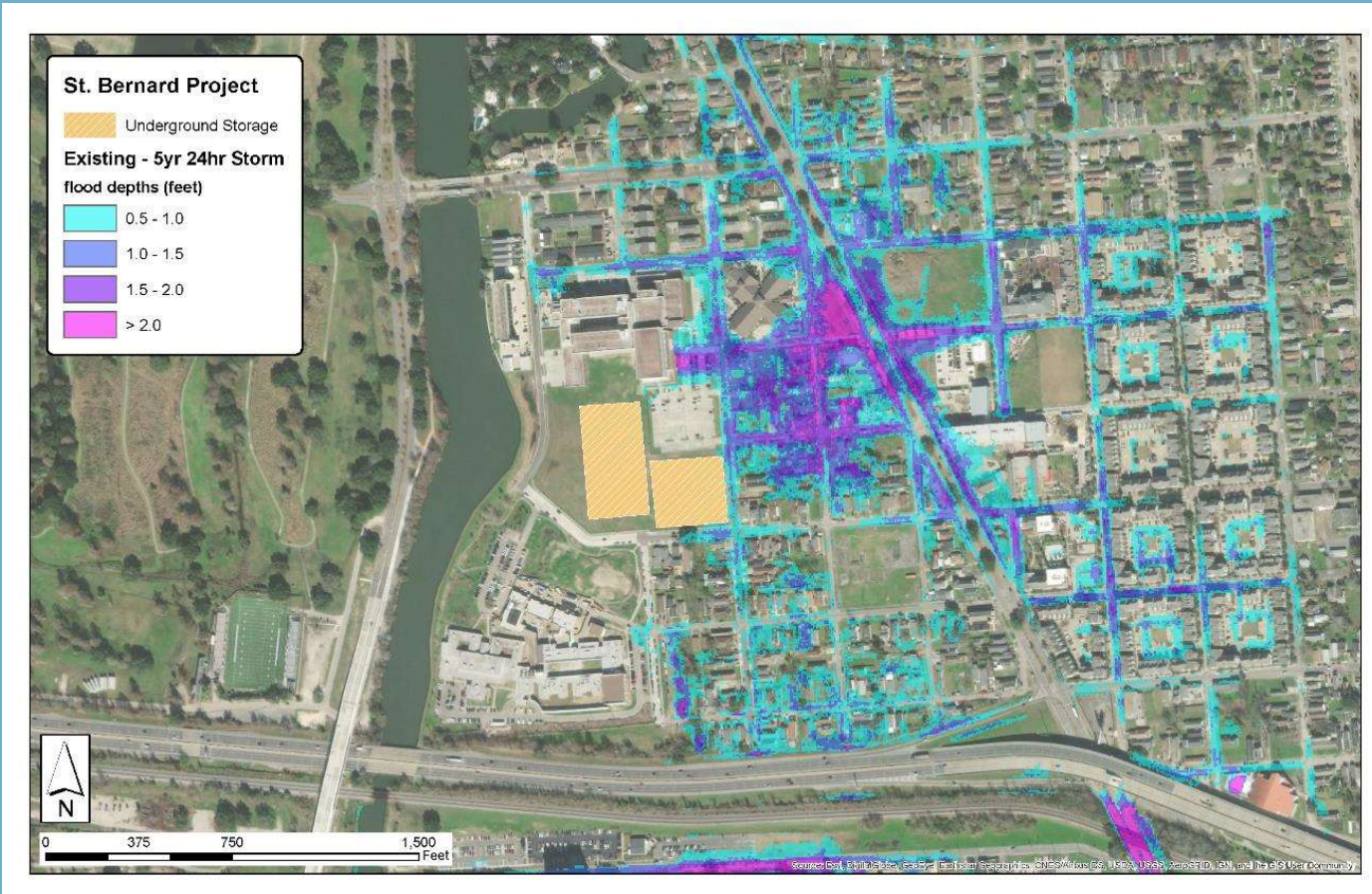


Images Courtesy of ISeeChange



# Background

## Flooding (5-year Storm)



# Background

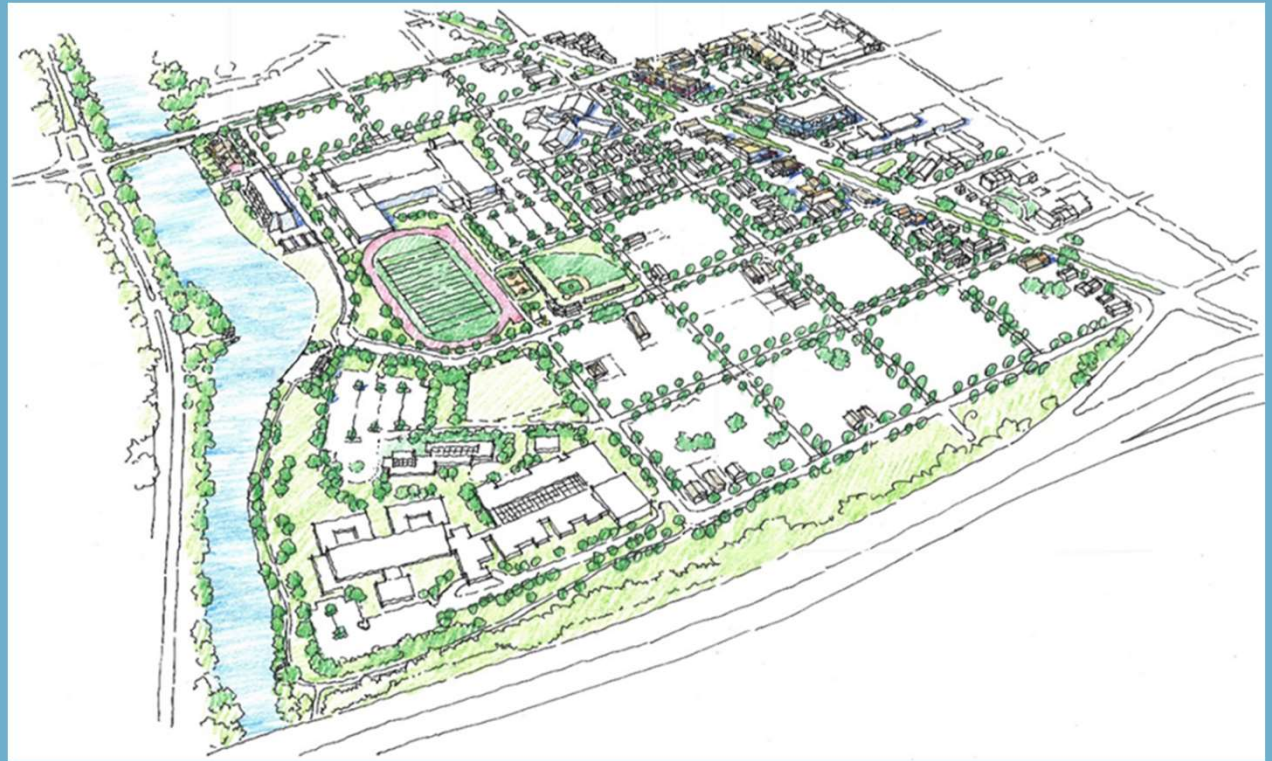
## Early Visions



St. Bernard Neighborhood Project Scoping Area



St. Bernard Neighborhood Street Conceptual Rendering



St. Bernard Neighborhood Conceptual Rendering



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# Project Goals



## Urban Water

1. Flooding reduction
2. Promote infiltration and groundwater recharge



## Ecology

1. Increase biodiversity
2. Integrate more climate-thriving plantings



## Infrastructure

1. Create complete street corridors



## Economics

1. Drive economic growth through reinvestment
2. Reduce flood management risk



## Recreation

1. Access to parks
2. Active and passive recreation



## Public Health

1. Encourage community wellness by increasing spaces for outdoor activity



## Urban Heat Mitigation

1. Increase shaded spaces
2. Increase monitoring in an effort to reduce heat island effect



## Community

1. Create spaces for social gatherings
2. Interactive educational opportunities



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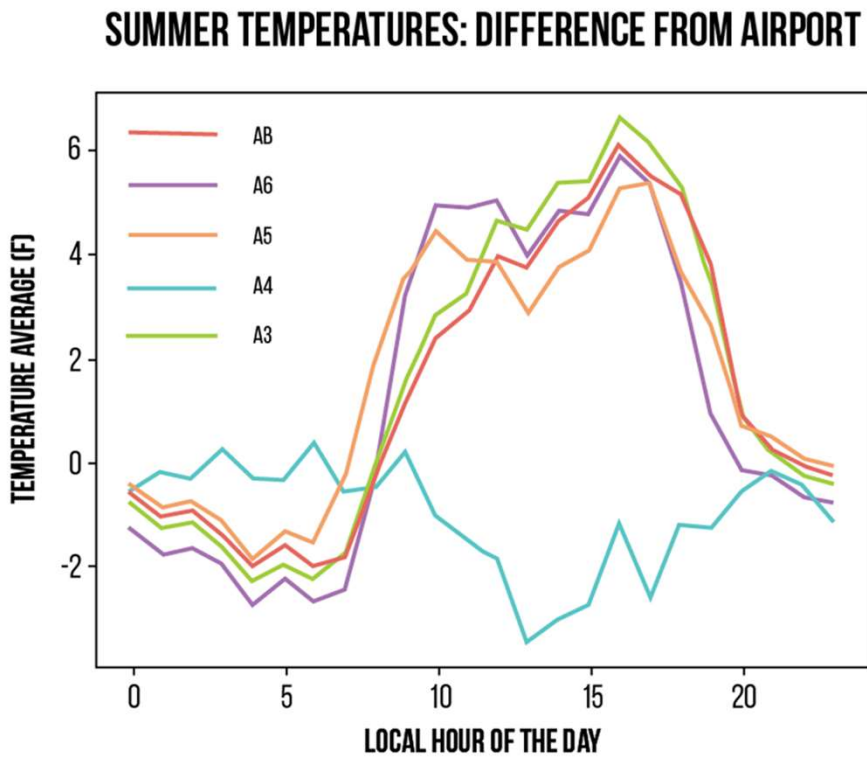


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# Project Goals

## ISeeChange Heat Sensors in St. Bernard Campus, Summer 2019





# Public Engagement

## Businesses

- Columbia Parc at the Bayou District
- Educare New Orleans
- Good Samaritan Rehab & Nursing Center
- Hair Grounds Gentlemen's Grooming
- Spider's Meat Market
- St. Thomas Community Health Center
- Super Suds

## Residential

- Parkview St. John Apartments
- Apartments from Senate to Harrison
- Single family residential bounded by Harrison, St. Bernard, Sere and Encampment
- Columbia Park

## Community outlets

- Norman Meyer Library
- Gentilly Messenger



# Public Engagement

Door to Door outreach  
Planning Workshop  
Dillard Health and  
Community Resource Fair  
Gentilly Fest  
Visioning Workshop  
60% Design Community Update  
90% Community Update

6/29/18  
7/11/18  
10/20/18  
  
10/13/18  
11/15/18  
12/7/19  
8/20/20



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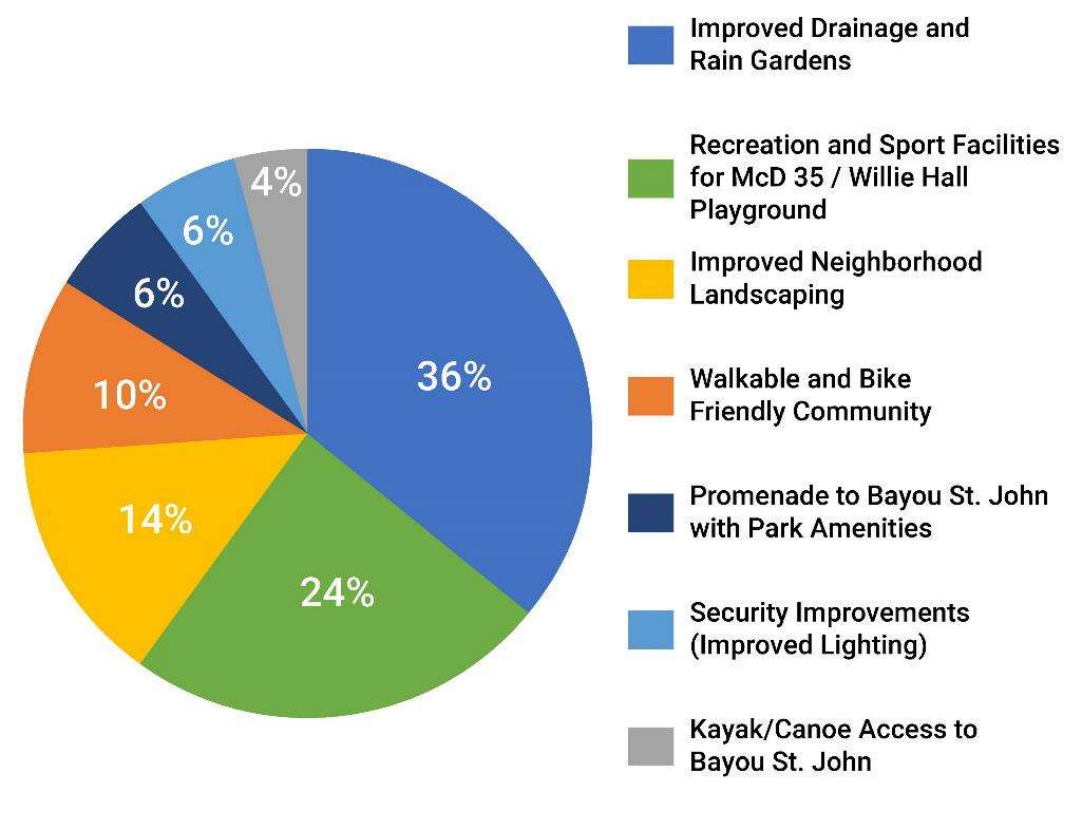
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# Public Engagement

## What We Heard

- 1. Improve Drainage
- 2. Recreational Amenities / Facilities
- 3. Improve Neighborhood Landscaping
- 4. Provide Walkable & Bike Friendly Area
- 5. Provide Park Amenities
- 6. Security Improvements
- 7. Kayak/Canoe Access to Bayou St. John

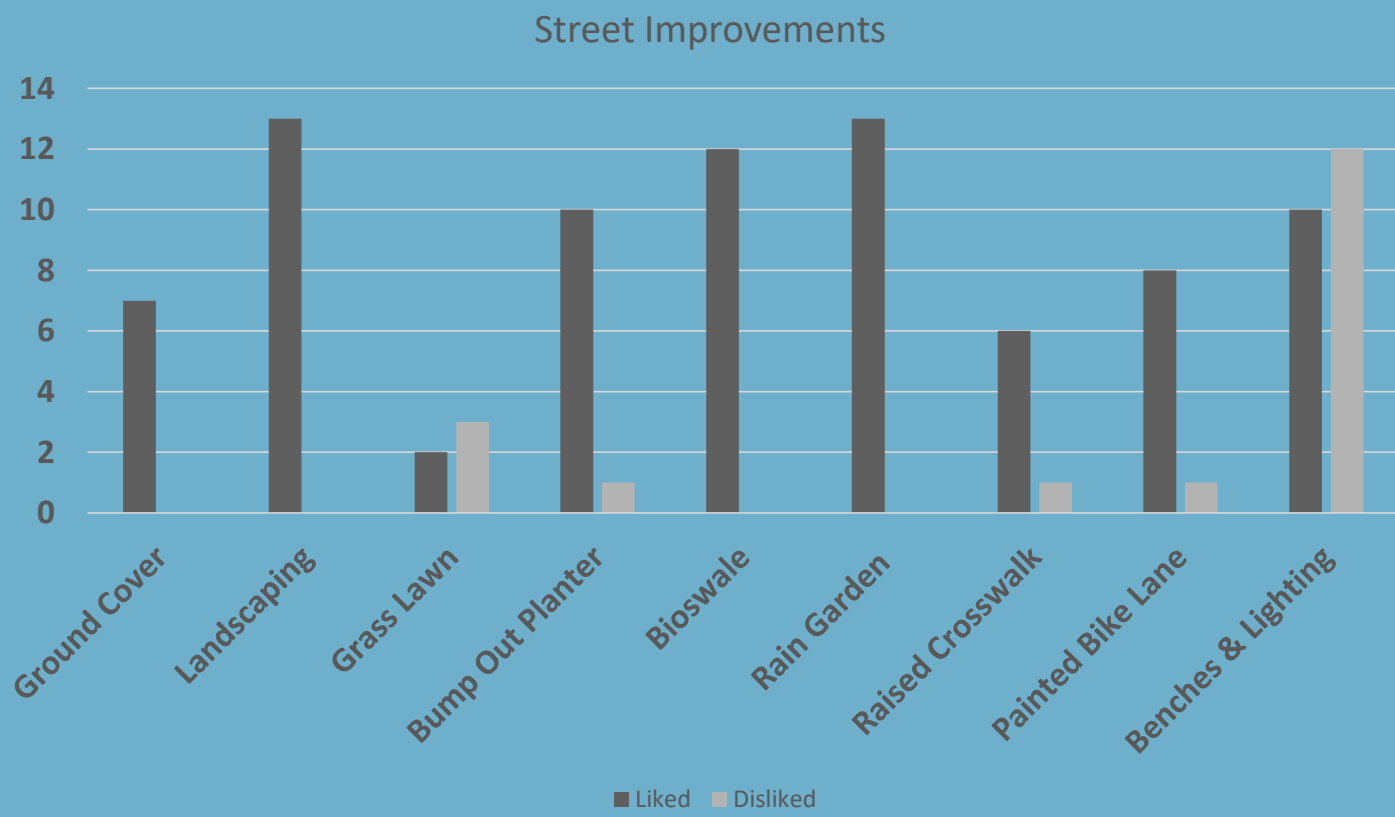


# Public Engagement

## What We Heard

- Liked
- 1. Playground
  - 2. Exercise Station
  - 3. Green Area
  - 4. Boardwalk
  - 5. Shade Structure

- Disliked
- 1. Benches
  - 2. Public Fountain
  - 3. Dog Park
  - 4. Picnic Area
  - 5. Event Lawn



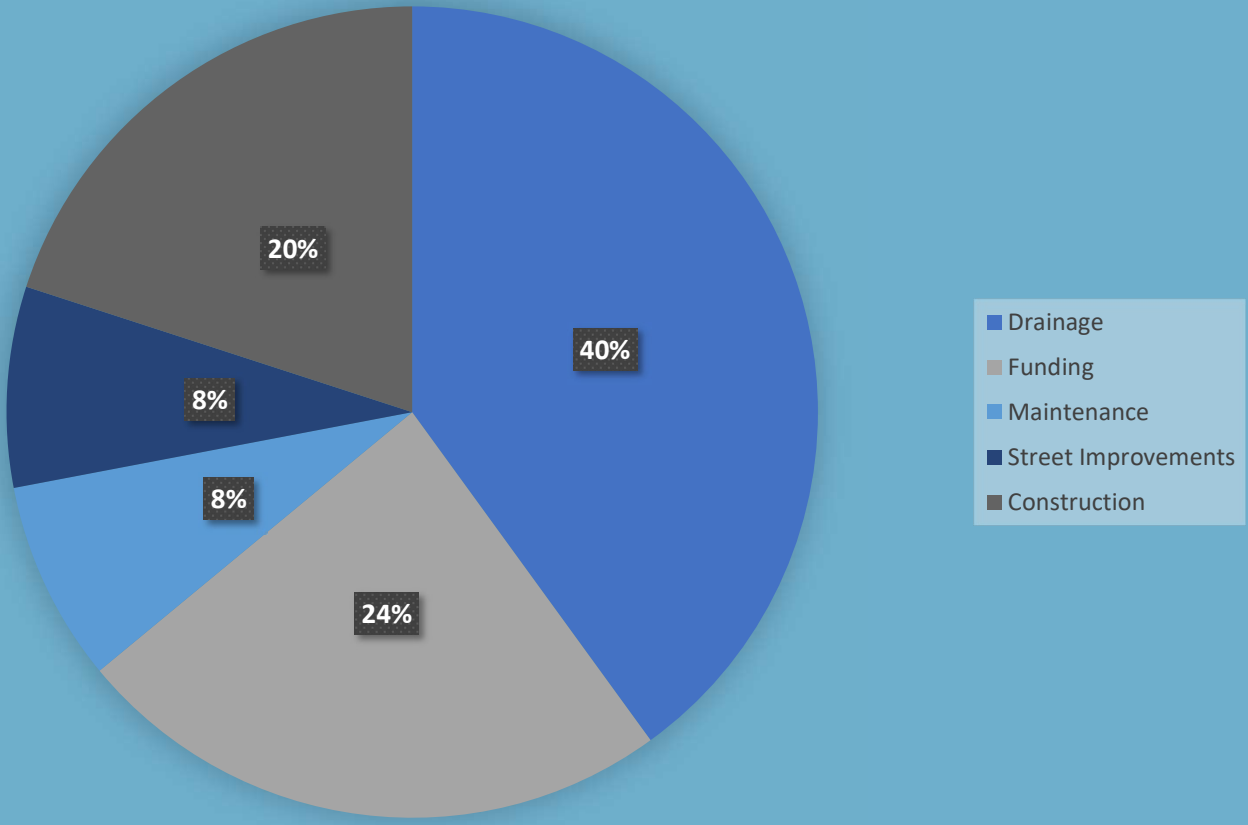


# Public Engagement

## What We Heard

90% Community Meeting  
Aug 20, 2020

Types of Questions



# Project Phasing

## Phase I:

Stormwater Storage  
Willie Hall Playground

## Phase II:

Multi-Purpose Recreation Support Building

## Phase III:

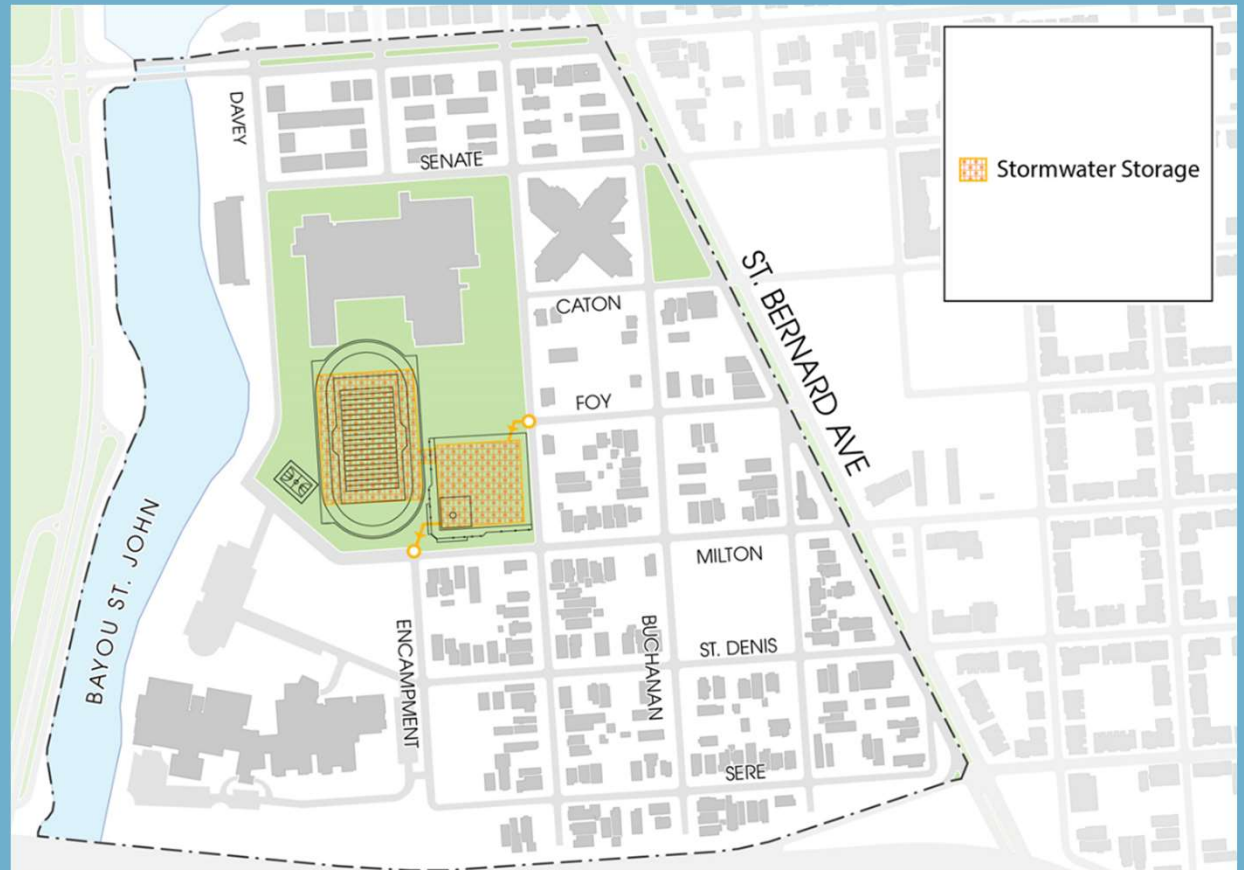
Gray & Green Infrastructure Improvements  
Park / Recreational Amenities

# Phase I

## Willie Hall Playground and Multi-Functional Athletic Fields

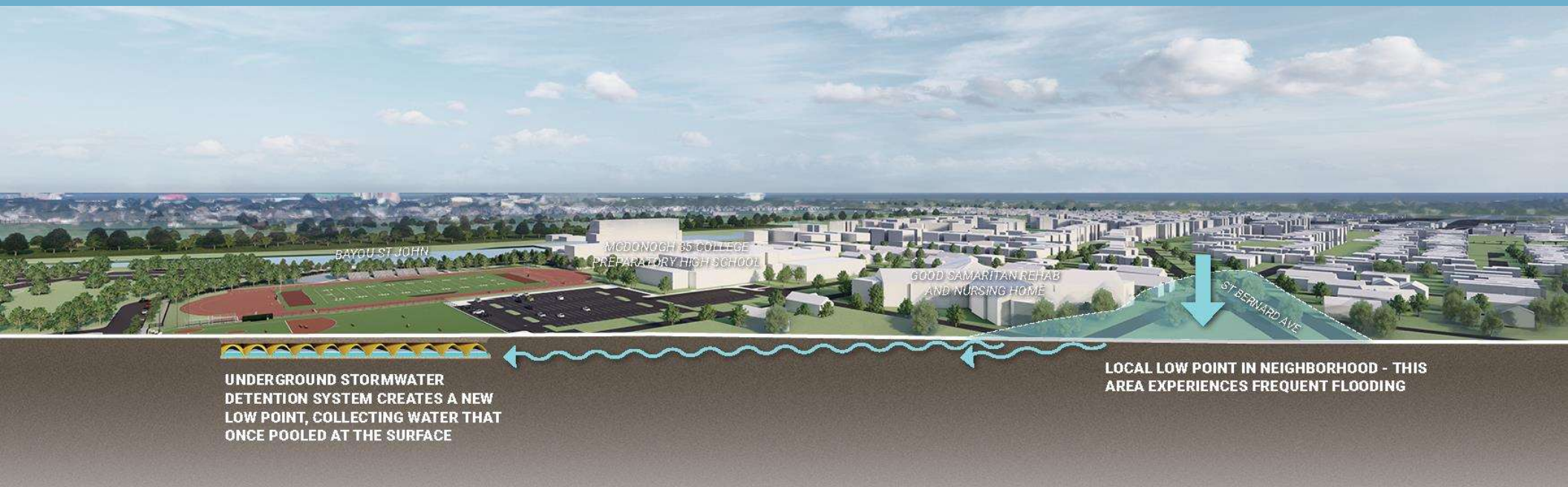
### Elements:

- Sub-Surface Stormwater Storage
- High Grade Athletic Fields



# Phase I

## Underground Stormwater Storage



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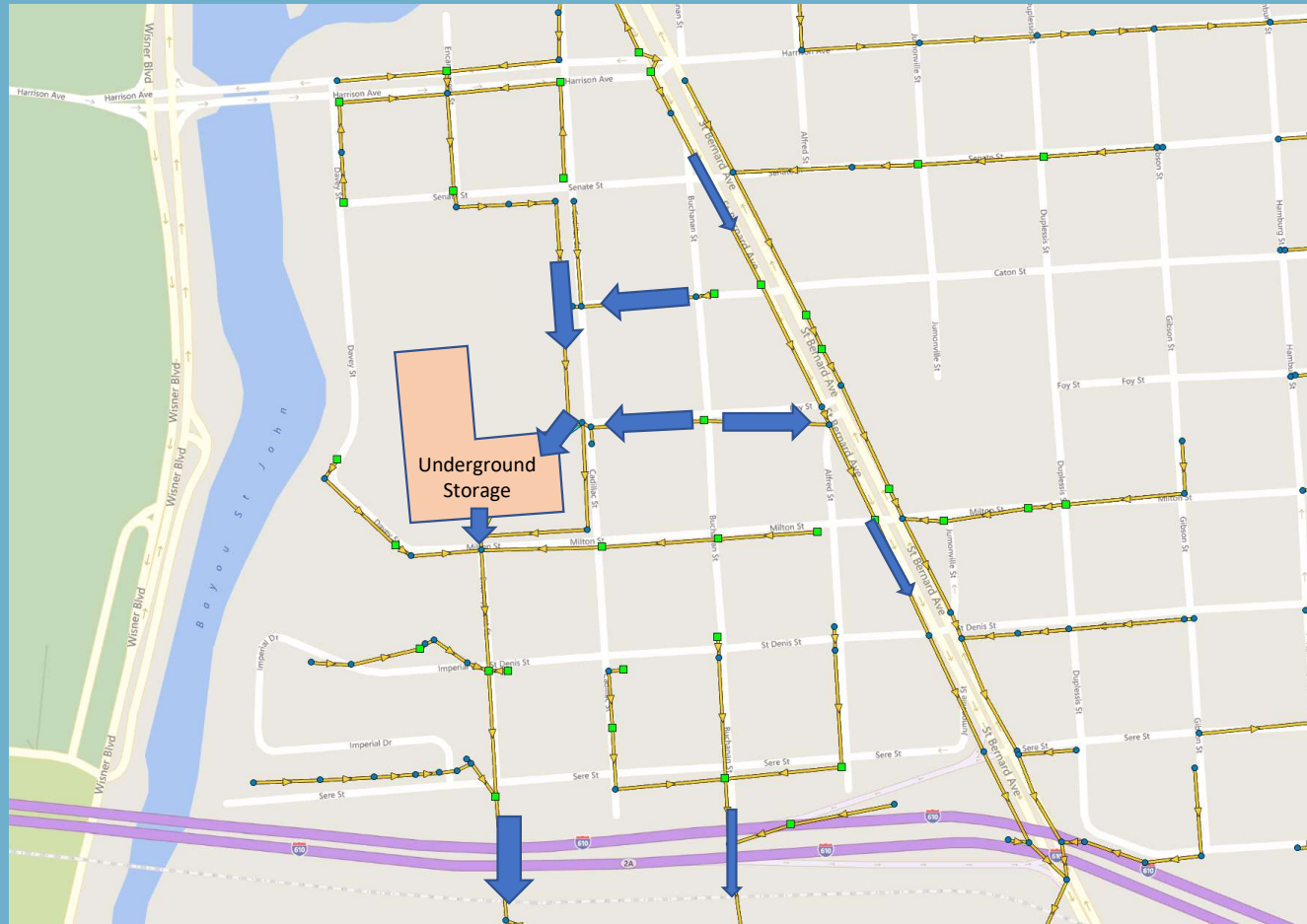
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# Phase I

## SWMM Model

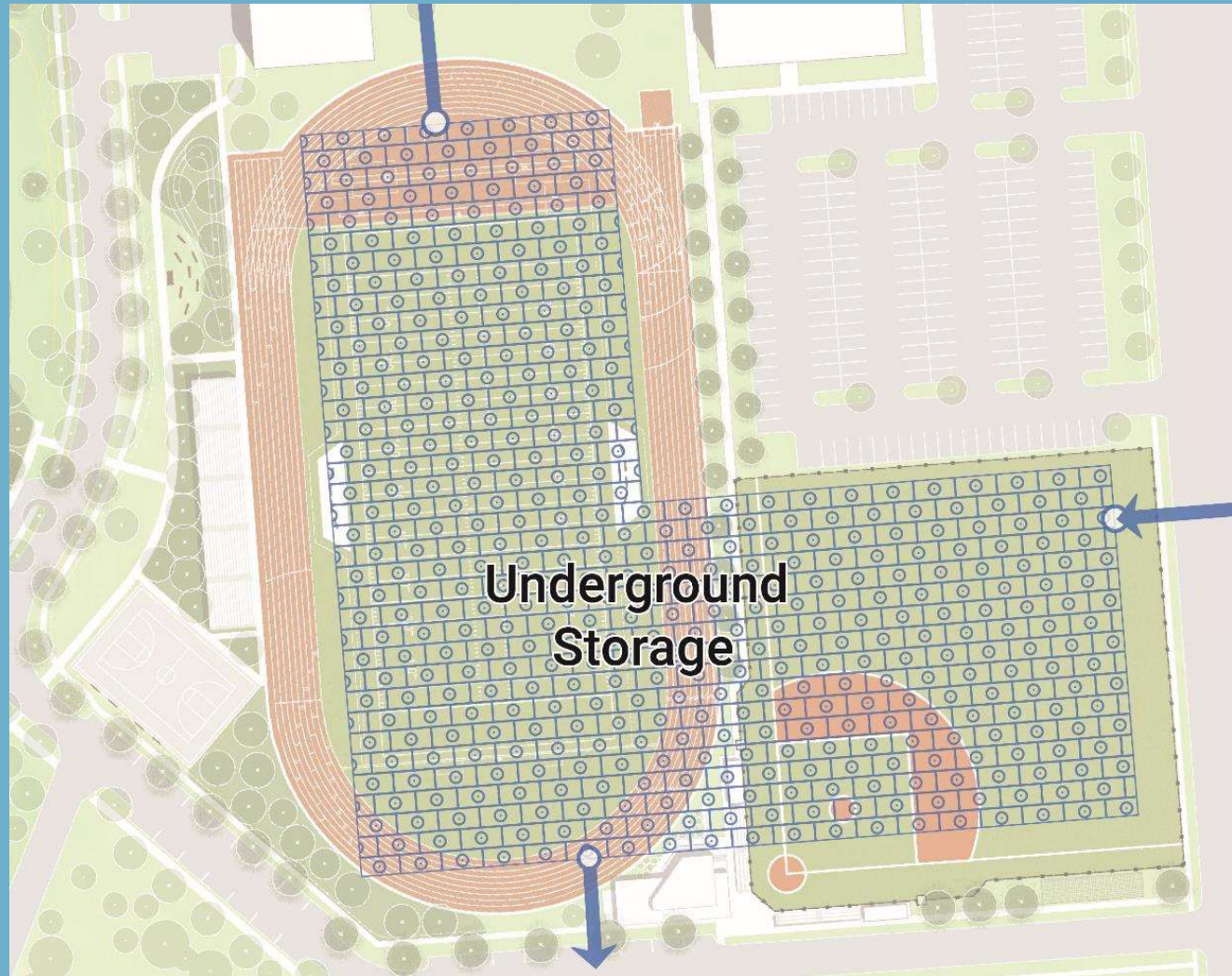
-  Flow Direction
-  Underground Storage
-  Drainage Pipe



# Phase I

## Underground Stormwater Storage

- 4.2 Acres of underground stormwater detention basin
- Will store up to 5 million gallons of stormwater = 7.5 Olympic-size pools
- Largest underground storage chamber system in the region

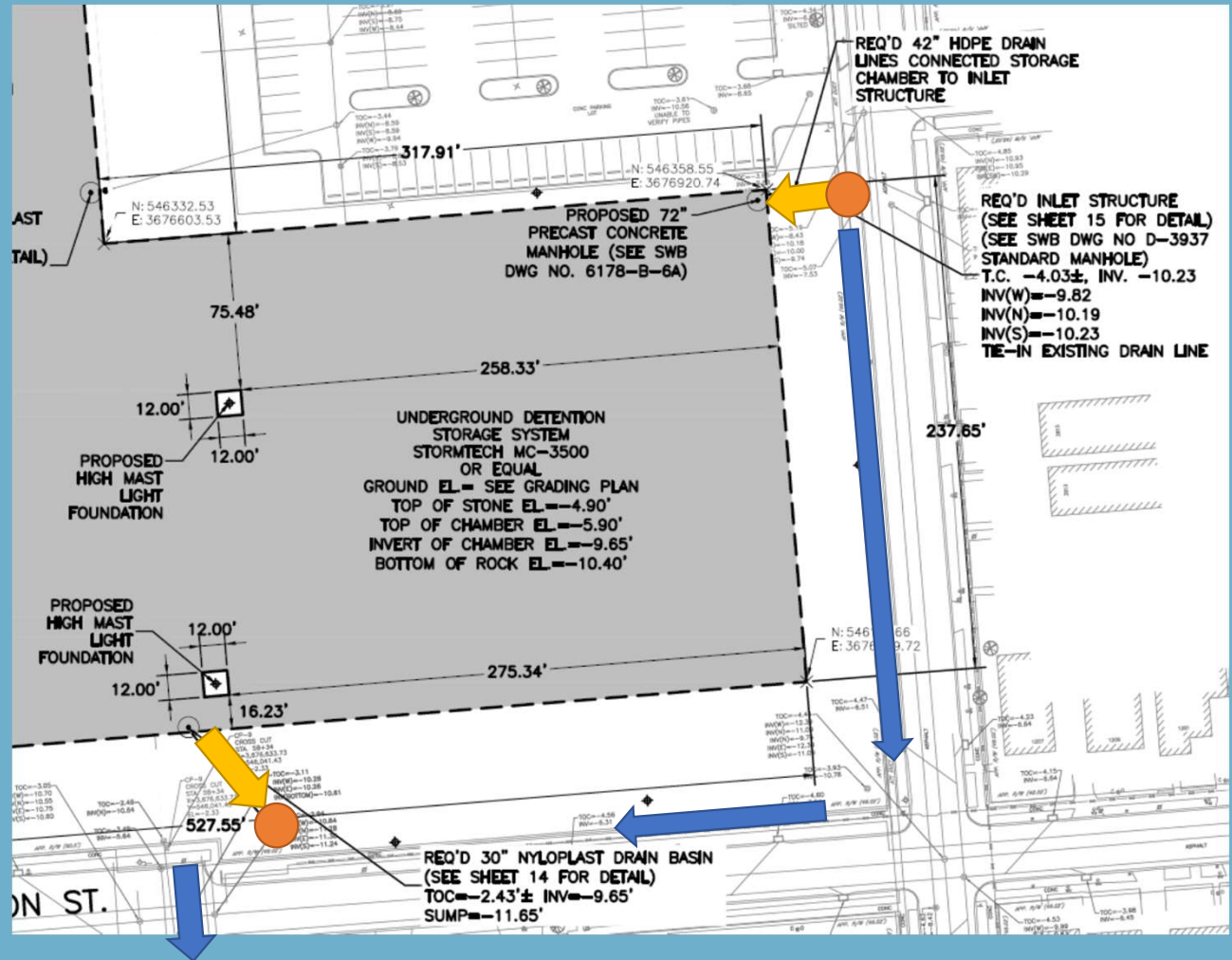


# Underground Stormwater

## 2 New Drainage Manhole Tie-ins

## Existing 58x36 RCPA to Remain

## Minimal Impact to Existing Drainage

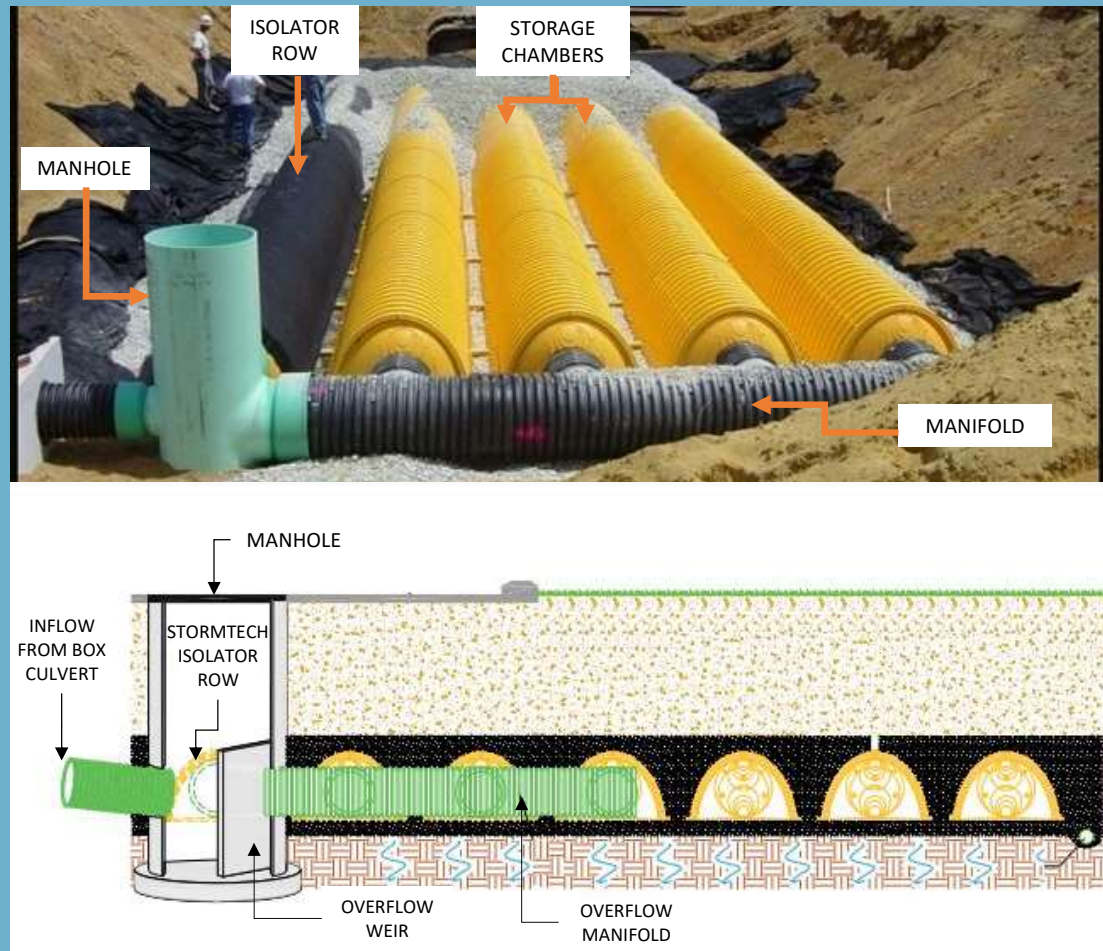




# Phase I

## StormTech Chambers – Maintenance

- Isolator Row designed to capture “first flush” sediments and debris.
- Flow rates exceed Isolator row capacity the water will flow over the weir and discharge through manifold to chambers.
- Effective means to minimize maintenance requirements and costs.



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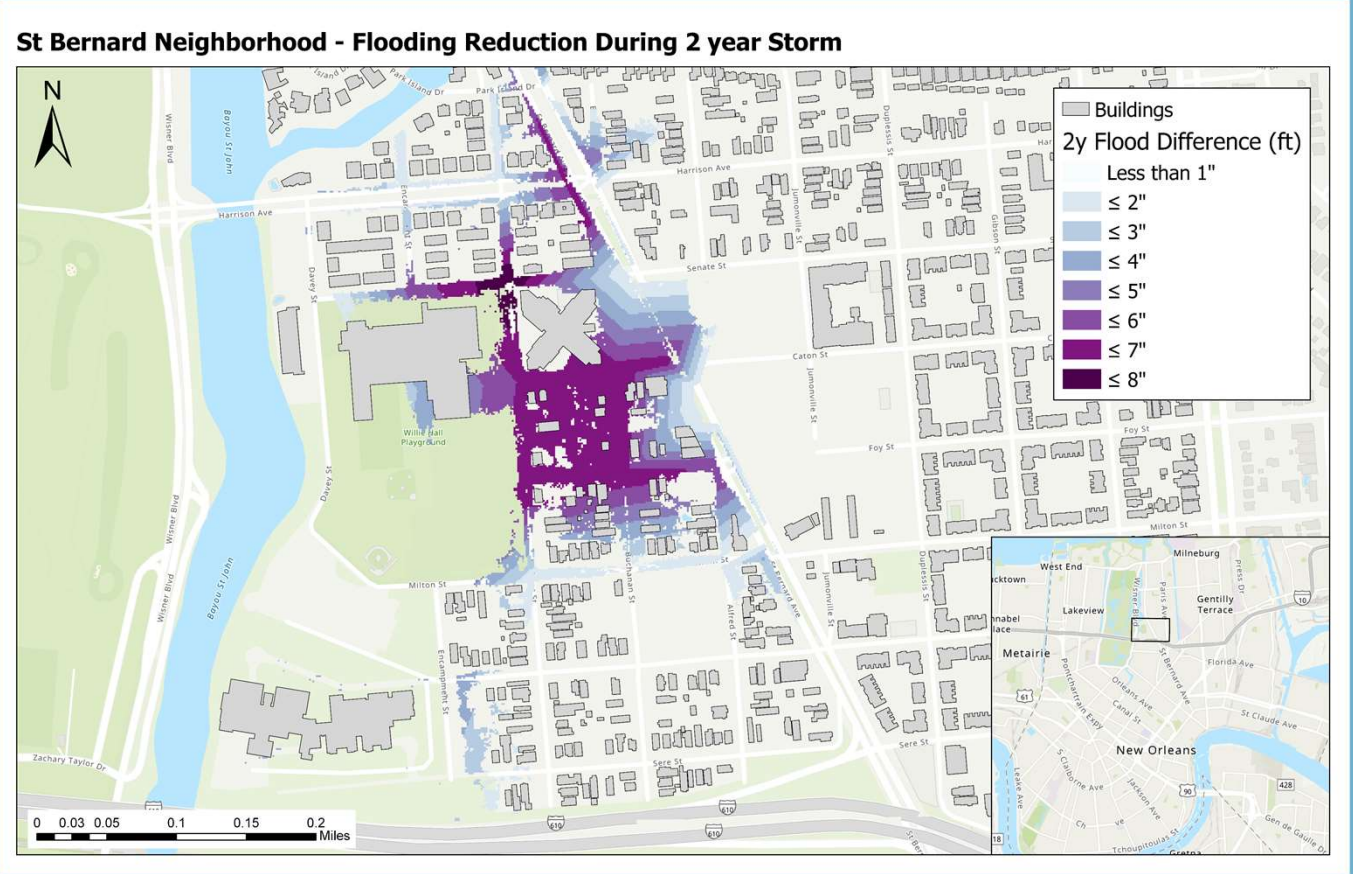


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# Phase I

## Flood Reduction Benefits

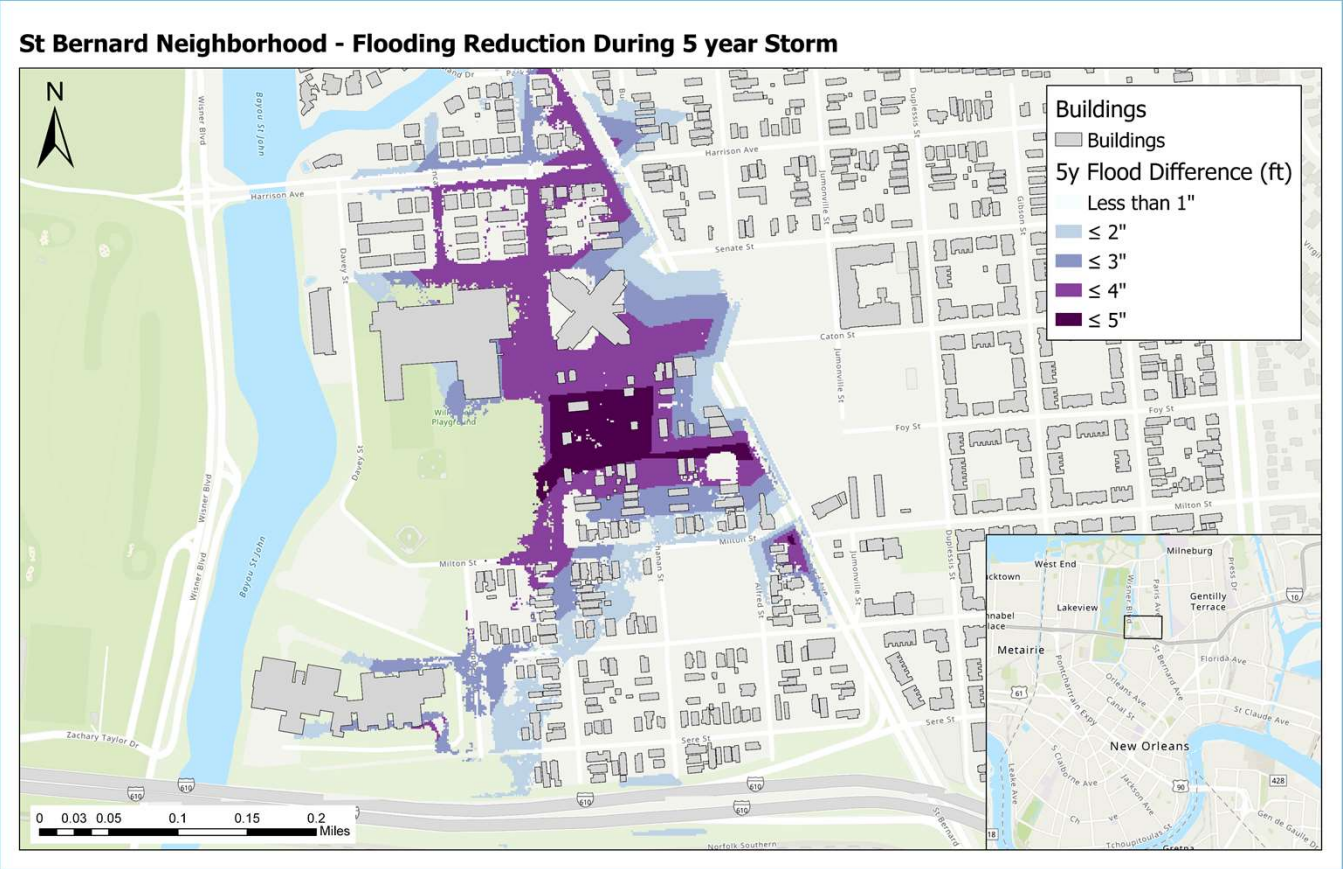


2-Year Storm Flood Reduction

Flood Duration Reduction 2 hrs

# Phase I

## Flood Reduction Benefits



5-Year Storm Flood Reduction

Flood Duration Reduction 1.75 hrs



# Willie Hall Playground A Community Institution





# Phase I

## Willie Hall Playground

### Athletic Fields

- Football/Soccer Field
- Baseball/Softball Field
- Basketball Court
- Sports and Area Lighting
- Bleachers



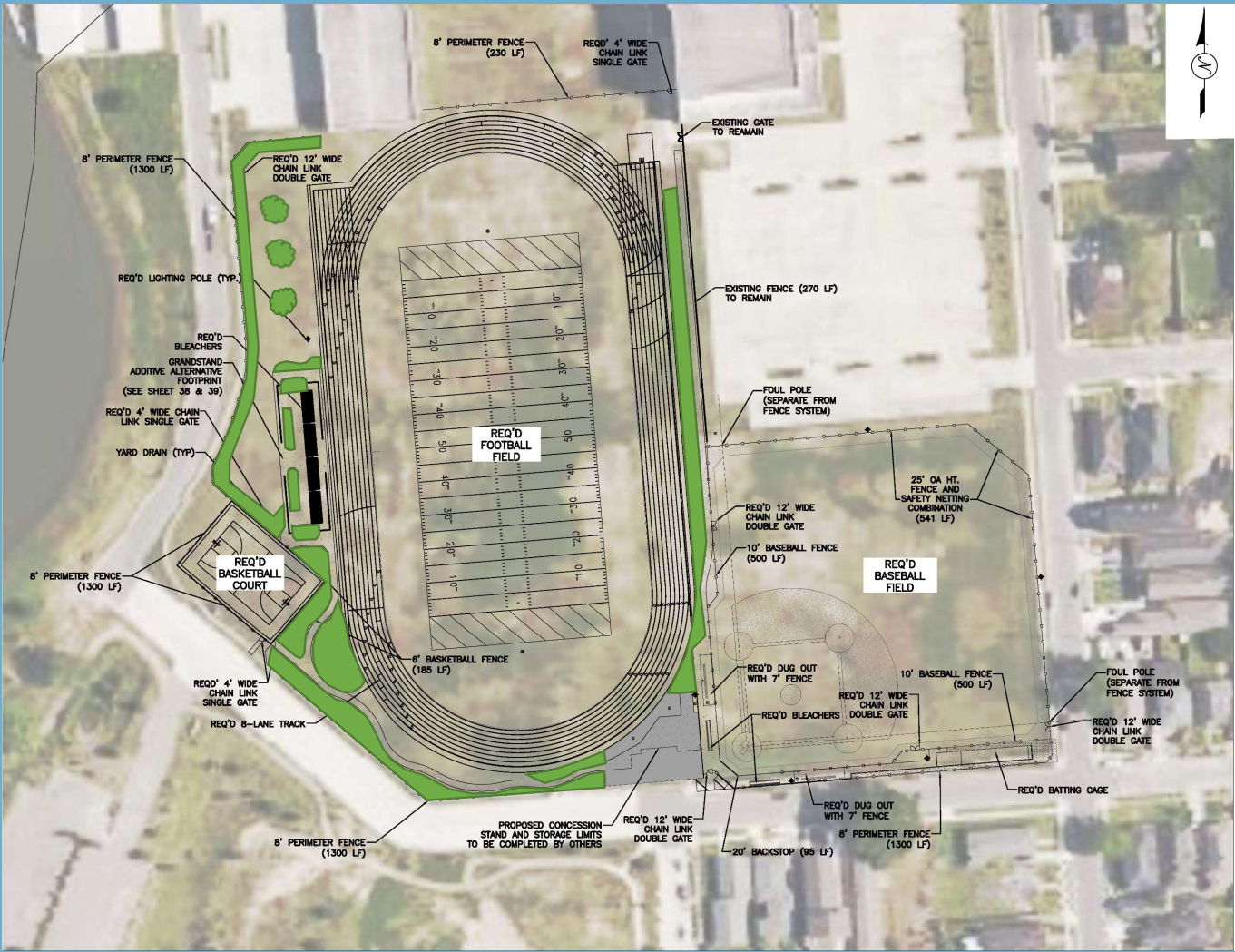
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# Phase I

## Landscaping





# Phase I

## Project Benefit Cost Analysis

### Greatest Benefits

- Property Value Increase
- Flood Damage Reduction
- Subsidence Reduction
- Stormwater Treatment

### Costs

- Capital Expenditures
- Operations and Maintenance
- Replacement Costs

**Triple Bottom Line (in NPV) = \$4.8M**

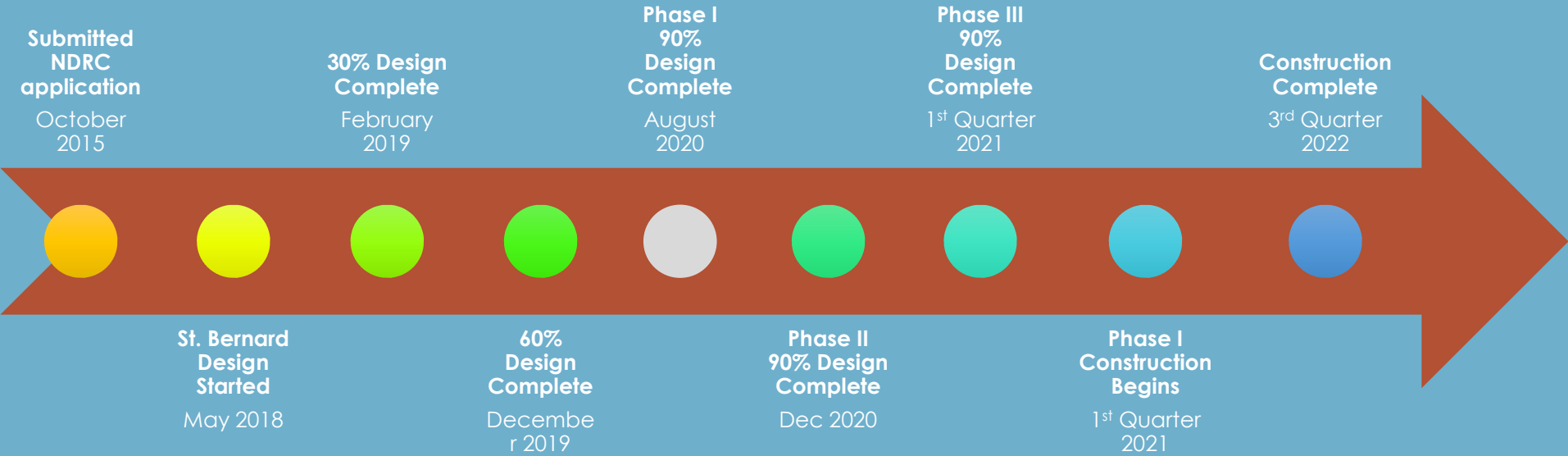
**Benefit Cost Ratio = 1.4**

Impact Type	Cost/Benefit	Expected Value
Financial	Capital Expenditures	-\$7,478,000
Financial	Operations and Maintenance	-\$3,033,000
Financial	Replacement Costs	-\$1,477,000
Financial	Residual Value of Assets	\$3,000
Social	Subsidence Road Impact	\$2,357,000
Social	Subsidence Property Impact	\$464,000
Social	Public Health	\$71,000
Social	Public Health CVD Impact	\$21,000
Social	Property Value	\$931,000
Social	Flood Damage	\$8,935,000
Social	Recreational Value	\$1,078,000
Social	Education	\$105,000
Social	Heat Island Effect	\$32,000
Environmental	Carbon Emission Sequestration	\$4,000
Environmental	Air Pollution Sequestration	\$13,000
Environmental	Stormwater Treatment	\$2,760,000

	Expected Value
Financial	-\$11,985,000
Social	\$13,994,000
Environmental	\$2,777,000

**Triple Bottom Line NPV** **\$4,786,000**

# Schedule





# Committee Discussion

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Public Comment

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## Stay in Touch!

Visit the project website for more info:

<https://www.nola.gov/resilience-sustainability/ndr-grd-projects-programs/st-bernard-neighborhood-campus/>

Email [roadwork@nola.gov](mailto:roadwork@nola.gov) to sign up for project updates

Follow us on social media @ResilientNola

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